

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 May 2005 (12.05.2005)

PCT

(10) International Publication Number
WO 2005/043963 A1

(51) International Patent Classification⁷: **H05B 33/28**,
H01L 51/30, 51/20

(21) International Application Number:
PCT/EP2004/003472

(22) International Filing Date: 1 April 2004 (01.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03425674.3 17 October 2003 (17.10.2003) EP

(71) Applicants (for all designated States except US): INFM
ISTITUTO NAZIONALE PER LA FISICA DELLA
MATERIA [IT/IT]; Corso F. Perrone, 24, I-16152 Genova
(IT). VITRUM-LUX S.A. [LU/LU]; Zone industrielLe
(P.E.D.), L-4801 Rodange (LU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BLYTH, Robert,
Ian, Renton [GB/IT]; Via delle Bombarde, 13/B, I-73100

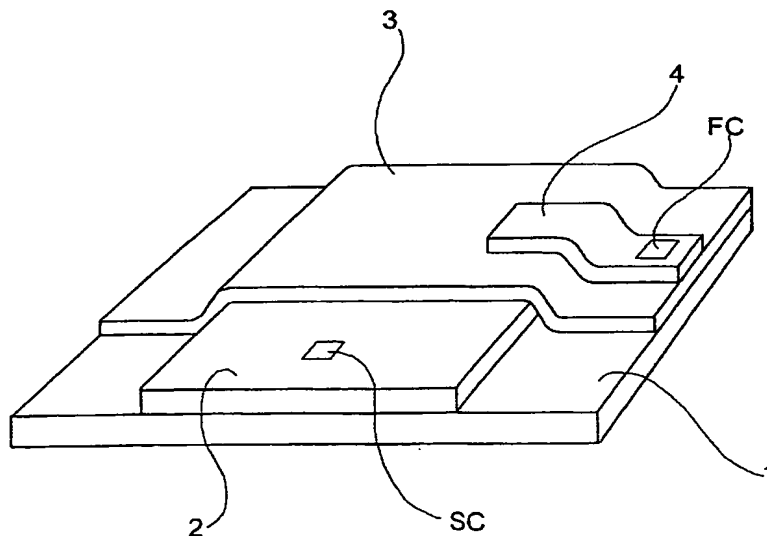
Lecce (IT). THOMPSON, Julie [GB/IT]; Via delle Bom-
barde, 13/B, I-73100 Lecce (IT). PERRONE, Elisabetta
[IT/IT]; Via Cairoli, 146, I-73015 Salice Salentino (IT).
CARALLO, Sonia [IT/IT]; Via Giordano, 24, I-73040
Aradeo (IT). MAIORANO, Vincenzo [IT/IT]; Via Cesira
Pozzolini, 47 bis, I-73013 Galatina (IT). CINGOLANI,
Roberto [IT/IT]; Via Emma Indraccolo, 20, I-73100 Lecce
(IT). CROCE, Angelo [IT/LU]; Rue de Niederkorn 104/a,
L-4762 Petange (LU). DANEU, Alessandro [IT/IT]; Via
Desiderio da Settignano, 18, I-20149 Milano (IT).

(74) Agents: RAMBELLI, Paolo et al.; Jacobacci & Partners
SpA, Corso Emilia 8, I-10152 Torino (IT).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

[Continued on next page]

(54) Title: AN ELETROACTIVE DEVICE BASED ON ORGANIC COMPOUNDS, COMPRISING A FLOAT-GLASS SUB-
STRATE



(57) Abstract: An electroactive photonic device (D) comprises a substrate (1), at least one cathode layer (2), at least one anode layer (4), and at least one layer of active material (3) based on organic compounds and interposed at least partially between the anode and cathode layers (2, 4). The layers (2, 3, 4) are arranged on the substrate (1) in a predetermined configuration such that the device (D) can convert luminous energy into electrical energy or vice versa. The substrate (1) is made of float glass.

WO 2005/043963 A1



(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

Declaration under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM,

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.